Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Improvements of Roads and Drains at Naidu layout in Chowdeshwari ward no 02

					Estimate Cost Rs.			20.00 Lakhs	
Slno	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB M300-14. **Excavation for roadwork** in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (Page No143., I.No.19.14 of KPWD S.R 2018-19).								
	Basic rate	41.00							
	6.00% AW	2.46							
	Sub total	**43.46**							
	5 Km Lead	25.6							
	Total	**69.06**							
	Harohalli								
	7th cross B	1	160.00	4.70	0.30	225.60			
	7th cross C	1	157.00	4.70	0.30	221.37			
						446.97	**Cum**	**69.06**	**30,867.75**
2	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (Page No 153., I.No.20.5 of KPWD S.R 2018-19).								
	Basic rate	1882.00							
	6.00% AW	112.92							
	Sub total	**1994.92**							
	Harohalli								
	7th cross B	1	160.00	4.70	0.15	112.80			
	7th cross C	1	157.00	4.70	0.15	110.69			
						223.49	**Cum**	**1994.92**	**445834.70**
3	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.155 I.No.20.18) KPWD SR 2018-19								
	Basic rate	1888.00							
	6.00% AW	113.28							
	Sub total	**2001.28**							
	Harohalli								
	7th cross B	1	160.00	4.70	0.15	112.80			
	7th cross C	1	157.00	4.70	0.15	110.69			
						223.49	Cum	2001.28	447256.06

	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision (P.No.158/It No.21.6) KPWD SR 2018-19								
	Basic rate	28.00							
	6.00% AW	1.68							
	Sub total	**29.68**							
	Harohalli								
	For DBM								
	7th cross B	1	160.00	4.70		752.00			
	7th cross C	1	157.00	4.70		737.90			
						1489.90	**Sqm**	**29.68**	**44,220.23**
5	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision. - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.160 It.No.21.17.6) KPWD SR 2018-19								
	Basic rate	6470.00							
	6.00% AW	388.2							
	Sub total	**6858.2**							
	Harohalli								
	7th cross B	1	160.00	4.70	0.04	30.08			
	7th cross C	1	157.00	4.70	0.04	29.52			
						59.60	**Cum**	**6858.20**	**408721.29**
5	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision. (P.No.158 & I.No.21.7) KPWD SR 2018-19								
	Basic rate	12.00							
	6.00% AW	0.72							
	Sub total	**12.72**							
	Harohalli								
	For BC								
	7th cross B	1	160.00	4.70		752.00			
	7th cross C	1	157.00	4.70		737.90			
						1489.90	**Sqm**	**12.72**	**18,951.53**
7	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. - do - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen (P.No.162 Item No.21.22.6) KPWD SR 2018-19								
	Basic rate	7464.00							
	6.00% AW	447.84							
	Sub total	**7911.84**							
	Harohalli								
	7th cross B	1	160.00	4.70	0.03	22.56			
	7th cross C	1	157.00	4.70	0.03	22.14			
						44.70	**Cum**	**7911.84**	**353635.51**

	ORRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No.182 & I.No.24.15) KPWD SR 2018-19								
	Basic rate	429.00							
	6.00% AW	25.74							
	Sub total	**454.74**							
	Harohalli								
	7th cross B	2.0	160.00	0.10		32.00			
	7th cross C	2.0	150.00	0.10		30.00			
						62.00	**Sqm**	**580.71**	**36,004.02**
								Total Construction Cost	**1785491.08**
								12% GST	**214258.93**
								Sub Total	**1999750.02**
								Miscellaneous & Rounding off	**249.98**
								GRAND TOTAL	**2000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Assistant Engineer
Ward No-02
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

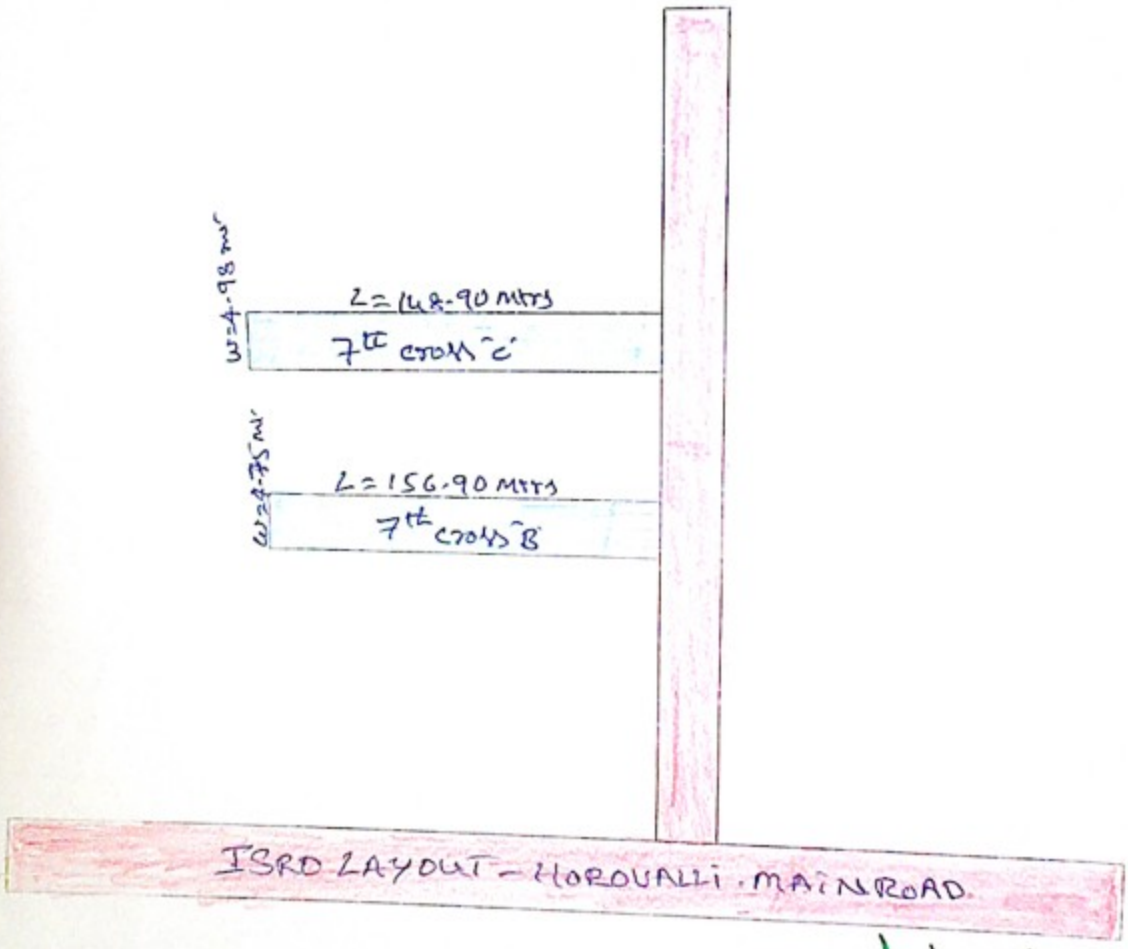
Administrative Approval
Accorded For ..Rs. 20.00 Lacs
Head of A/C...P:1771
CER NO :....20.6... Dt:25.2.19

TA CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 20.00 Lacs
Rupees ..Twenty Lakhs Only/-
Under ..P:1771-2018-19
Registered as CE ( ) No 9 9
Subject to conditions contained in enclosed memo EE ( ) No ...../9/
Dt..... Estimate A/ Sanctioned
CE/TS/51/18-19 ..... No.....
Dated 25.2.19 ..... Rs. 20.00 Lacs

Executive Engineer

Name of work : Improvements to roads and drains at Naidu layout in chowdeshwari ward no – 02 of yelahanka Sub division



Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

INDEX:

Asphalting Road

Existing Roads

A.E.

A.E.E.